## SCORE Search Results Details for Application 10516759 and Search Result 20081112 112527 us-10-516-759-14 copy 24 81.rpr. SCORE System SCORE

Overview FAQ Suggestions Page List This page gives you Search Results detail for the Application 10516759 and Search Result 20081112 112527 us-10-516-759-

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OM protein - protein search, using sw model

Retrieve Application

Run on: November 12, 2008, 12:14:54; Search time 9 Seconds (without alignments)

620.064 Million cell updates/sec

Title. US-10-516-759-14\_COPY\_24\_81

Perfect score: 350 Sequence:

Searched:

Database :

14 copy 24 81.rpr.

1 DIKHNRPRRDCVAEGKVCDP.....RNYSRGGVCVTHCNFLNGEP 58

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

283416 segs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seg length: 0

Maximum DB seg length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

PIR 80:\* 1: pir1:\*

2: pir2:\*

3: pir3:\*

4: pir4:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARTES

		8				
Result No.	Score	Query Match	Length	DB	ID	Description
1	350	100.0	1342	2	A36223	kinase-related tra
2	298	85.1	1339	2	JC4387	epidermal growth f

3	212	60.6	1308	2	A47253	epidermal growth f
4	201	57.4	644	2	A36325	epidermal growth f
5	200	57.1	1210	2	A53183	epidermal growth f
6	198	56.6	1223	1	TVCHLV	epidermal growth f
7	179	51.1	1210	1	GQHUE	epidermal growth f
8	174	49.7	1255	1	A24571	protein-tyrosine k
9	166.5	47.6	1260	1	TVRTNU	protein-tyrosine k
10	150.5	43.0	1369	2	S70713	protein-tyrosine k
11	143.5	41.0	1166	1	S06142	protein-tyrosine k
12	142	40.6	1254	2	I48161	p-185 precursor -
13	133	38.0	843	2	A27131	epidermal growth f
14	128.5	36.7	1323	2	E88257	protein let-23 [im
15	128.5	36.7	1374	2	S70712	protein-tyrosine k
16	115	32.9	1299	2	T43251	furin (EC 3.4.21.7
17	107	30.6	1680	2	A43434	furin (EC 3.4.21.7
18	97.5	27.9	915	2	B48225	probable proprotei
19	96.5	27.6	915	1	A48225	subtilisin-like pr
20	96.5	27.6	1548	2	S34583	serine proteinase
21	95.5	27.3	899	2	G02428	subtilisin-like pr
22	95.5	27.3	915	2	JC6148	subtilisin-like pr
23	95.5	27.3	969	1	A39490	subtilisin-like pr
24	95.5	27.3	975	2	JC5570	subtilisin-like pr
25	93.5	26.7	962	2	JC5571	subtilisin-like pr
26	90.5	25.9	631	2	JC2345	kexin-like protein
27	90.5	25.9	644	2	JC2346	kexin-like protein
28	90.5	25.9	932	2	I52527	PACE4A - mouse (fr
29	90.5	25.9	937	2	I53282	gene PACE4 protein
30	89	25.4	1717	1	A45558	epidermal growth f
31	87	24.9	1372	2	A34157	insulin receptor p
32	87	24.9	1383	2	A36080	insulin receptor p
33	86	24.6	1382	1	INHUR	insulin receptor p
34	84	24.0	427	2	T29872	hypothetical prote
35	84	24.0	1367	1	IGHUR1	insulin-like growt
36	82	23.4	1330	1	GQFFE	epidermal growth f
37	82	23.4	1371	2	A33837	insulin-like growt
38	77.5	22.1	2101	2	S57245	insulin receptor (
39	77.5	22.1	2148	1	A56081	insulin receptor -
40	77	22.0	1363	2	T43220	insulin-like growt
41	74	21.1	1268	2	B36502	insulin receptor-r
42	73.5	21.0	1607	2	T43212	insulin-like growt
43	73	20.9	540	2	B47417	insulin receptor-r
44	72	20.6	329	2	A48805	insulin-like growt
45	71.5	20.4	1274	2	T42017	cysteine rich prot

## ALIGNMENTS

```
RESULT 1
A36223
```

kinase-related transforming protein (erbB3) (EC 2.7.1.-) precursor - human C;Species: Homo sapiens (man)

C;Date: 04-Oct-1991 #sequence\_revision 13-Jan-1993 #text\_change 31-Dec-2004 C;Accession: A36223; 159164

R; Kraus, M.H.; Issing, W.; Miki, T.; Popescu, N.C.; Aaronson, S.A.

Proc. Natl. Acad. Sci. U.S.A. 86, 9193-9197, 1989

A; Title: Isolation and characterization of ERBB3, a third member of the ERBB/epidermal

A; Reference number: A36223; MUID: 90083234; PMID: 2687875

tumors.

```
A:Accession: A36223
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-1342 < KRA>
A:Cross-references: UNIPROT:P21860: UNIPARC:UPI000017A3AE: GB:M29366
R; Plowman, G.D.; Whitney, G.S.; Neubauer, M.G.; Green, J.M.; McDonald, V.L.; Todaro, G.J.;
Shovab, M.
Proc. Natl. Acad. Sci. U.S.A. 87, 4905-4909, 1990
A; Title: Molecular cloning and expression of another epidermal growth factor receptor-
related gene.
A; Reference number: I59164; MUID: 90311312; PMID: 2164210
A; Accession: I59164
A; Status: preliminary; translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 1-559, 'G', 561-957, 'F', 959-1063, 'G', 1065-1342 < RES>
A; Cross-references: UNIPARC: UPI0000050F2D; GB: M34309; NID: q183990; PIDN: AAA35979.1; PID:
a306841
C; Genetics:
A; Gene: GDB: ERBB3; HER3
A; Cross-references: GDB:119880; OMIM:190151
A; Map position: 12q13-12q13
C; Keywords: ATP; phosphotransferase
F;707-972/Domain: protein kinase homology <KIN>
F;715-723/Region: protein kinase ATP-binding motif
 Query Match
                          100.0%; Score 350; DB 2; Length 1342;
 Best Local Similarity 100.0%; Pred. No. 2.8e-27;
 Matches 58; Conservative 0; Mismatches 0; Indels
                                                                0; Gaps
                                                                              0:
            1 DIKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGOCLSCRNYSRGGVCVTHCNFLNGEP 58
Qv
Db
          483 DIKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEP 540
RESULT 2
JC4387
epidermal growth factor receptor homolog precursor - rat
N; Alternate names: ErbB3 protein; HER3 protein
C; Species: Rattus norvegicus (Norway rat)
C;Date: 17-Jan-1996 #sequence_revision 19-Apr-1996 #text_change 05-Oct-2004
C:Accession: JC4387
R:Hellver, N.J.; Kim, H.H.; Greaves, C.H.; Sierke, S.L.; Koland, J.G.
Gene 165, 279-284, 1995
A; Title: Cloning of the rat ErbB3 cDNA and characterization of the recombinant protein.
A; Reference number: JC4387; MUID: 96096535; PMID: 8522190
A:Accession: JC4387
A; Molecule type: mRNA
A:Residues: 1-1339 <HEL>
A;Cross-references: UNIPARC:UPI000017A3DA; GB:U29339; NID:g915389; PID:g915390
A; Experimental source: liver
A; Note: The authors translated the codon AAC for residue 369 as Thr and GTT for residue 370
as Glv
C; Comment: This protein is a functional heregulin receptor that transduces signals to the
phosphatidylinositol 3-kinase pathway.
```

growth factor receptor family: Evidence for overexpression in a subset of human mammary

```
C; Genetics:
A:Gene: ErbB3
C; Keywords: ATP; growth factor receptor; liver; phosphoprotein; transmembrane protein
F:1-19/Domain: signal sequence #status predicted <SIG>
F;20-1339/Product: epidermal growth factor homolog #status predicted <MAT>
F;640-659/Domain: transmembrane #status predicted <TMM>
F;705-970/Domain: protein kinase homology <KIN>
F;713-721/Region: protein kinase ATP-binding motif
F;939,1051,1156,1194,1196,1219,1257,1259,1273,1286,1325/Binding site: phosphate (Tyr)
(covalent) #status predicted
                        85.1%; Score 298; DB 2; Length 1339;
 Ouerv Match
 Best Local Similarity 84.5%; Pred. No. 4.2e-22;
 Matches 49; Conservative 4; Mismatches 5; Indels
                                                             0; Gaps
                                                                       0;
           1 DIKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGOCLSCRNYSRGGVCVTHCNFLNGEP 58
Οv
             Db
         483 DIKYDRPLGECLAEGKVCDPLCSSGGCWGPAPGQCLSCRNYSREGVCVTHCNFLQGEP 540
RESULT 3
A47253
epidermal growth factor receptor, HER4 - human
C: Species: Homo sapiens (man)
C;Date: 22-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 05-Oct-2004
C:Accession: A47253
R; Plowman, G.D.; Culouscou, J.M.; Whitney, G.S.; Green, J.M.; Carlton, G.W.; Foy, L.;
Neubauer, M.G.; Shovab, M.
Proc. Natl. Acad. Sci. U.S.A. 90, 1746-1750, 1993
A:Title: Ligand-specific activation of HER4/pl80erbB4, a fourth member of the epidermal
growth factor receptor family.
A; Reference number: A47253; MUID: 93189574; PMID: 8383326
A:Accession: A47253
A; Status: preliminary; not compared with conceptual translation
A; Molecule type: nucleic acid
A; Residues: 1-1308 < PLO>
A; Cross-references: UNIPROT:Q15303; UNIPARC:UPI00000499DF; GB:L07868; NID:g337359; PIDN:
AAB59446.1; PID:q337360
A; Note: sequence extracted from NCBI backbone (NCBIP: 126842)
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: ATP; growth factor receptor
F;716-981/Domain: protein kinase homology <KIN>
F;724-732/Region: protein kinase ATP-binding motif
                        60.6%; Score 212; DB 2; Length 1308;
 Ouerv Match
 Best Local Similarity 60.7%; Pred. No. 1.4e-13;
 Matches 34; Conservative 7; Mismatches 15; Indels
                                                           0; Gaps
                                                                      0:
Qv
           2 IKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGE 57
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http://es/ScoreAccessWeb/GetItem.action?AppId=105167...-10-516-759-14\_copy\_24\_81.ppc&ItemType=4&startByte=0 (4 of 17)11/22/2008 11:35:38 AM

487 IRDNRKAENCTAEGMVCNHLCSSDGCWGPGPDOCLSCRRFSRGRICIESCNLYDGE 542

Db

RESULT 4 A36325

epidermal growth factor receptor - rat C:Species: Rattus norvegicus (Norway rat)

```
C;Date: 25-Jan-1991 #sequence_revision 25-Jan-1991 #text_change 05-Oct-2004
C:Accession: A36325
R; Petch, L.A.; Harris, J.; Raymond, V.W.; Blasband, A.; Lee, D.C.; Earp, H.S.
Mol. Cell. Biol. 10, 2973-2982, 1990
A; Title: A truncated, secreted form of the epidermal growth factor receptor is encoded by
an alternatively spliced transcript in normal rat tissue.
A; Reference number: A36325; MUID: 90258888; PMID: 2342466
A:Accession: A36325
A; Status: preliminary
A; Molecule type: mRNA
A; Residues: 1-644 < PET>
A; Cross-references: UNIPROT: Q9QX70; UNIPARC: UPI0000175620; GB: M37394
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: alternative splicing; ATP; growth factor receptor
                        57.4%; Score 201; DB 2; Length 644;
 Ouerv Match
 Best Local Similarity 59.6%; Pred. No. 1.1e-12;
 Matches 34; Conservative 5; Mismatches 18; Indels
                                                            0; Gaps
                                                                         0:
           2 IKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGOCLSCRNYSRGGVCVTHCNFLNGEP 58
             490 IMNNRAEKDCKATNHVCNPLCSSEGCWGPEPTDCVSCONVSRGRECVDKCNILEGEP 546
Db
```

## RESULT 5

A53183 epidermal growth factor receptor precursor - mouse

C: Species: Mus musculus (house mouse)

C;Date: 06-Jan-1995 #sequence\_revision 06-Jan-1995 #text\_change 05-Oct-2004

C; Accession: A53183; A43818; S24942; A28941; S45325; I49643

R; Luetteke, N.C.; Phillips, H.K.; Qiu, T.H.; Copeland, N.G.; Earp, H.S.; Jenkins, N.A.; Lee, D.C.

Genes Dev. 8, 399-413, 1994

A; Title: The mouse waved-2 phenotype results from a point mutation in the EGF receptor tyrosine kinase.

A; Reference number: A53183; MUID: 94170986; PMID: 8125255

A; Accession: A53183

A; Molecule type: mRNA

A:Residues: 1-1210 <LUE>

A; Cross-references: UNIPROT: 001279; UNIPARC: UPI0000175614; GB: U03425

R; Avivi, A.; Lax, I.; Ullrich, A.; Schlessinger, J.; Givol, D.; Morse, B. Oncogene 6, 673-676, 1991

A; Title: Comparison of EGF receptor sequences as a guide to study the ligand binding site.

A; Reference number: A43818; MUID: 91232866; PMID: 2030916

A:Accession: A43818 A; Molecule type: mRNA

A; Residues: 1-714 <AVI>

A; Cross-references: UNIPARC: UPI0000175615; GB: X59698

R; Eisinger, D.P.; Serrero, G.

submitted to the EMBL Data Library, June 1992

A:Reference number: \$24942 A; Accession: S24942

A; Molecule type: mRNA

A; Residues: 969-971, 'K', 973-1115, 'D' <EIS>

A:Cross-references: UNIPARC:UPI0000175616: EMBL:Z12608

R; Heisermann, G.J.; Gill, G.N.

J. Biol. Chem. 263, 13152-13158, 1988

```
A; Reference number: A28941; MUID: 88330814; PMID: 3138233
A:Accession: A28941
A; Molecule type: protein
A:Residues: 689-694,'X',696-704,'L',706-707;989-992,'XX',995-996,'X',998-1000;1002-
1009, 'D', 1011-1015, 'X', 1017-1025; 1028-1033; 1069-1070, 'X', 1072-1076, 'L' <HEI>
A;Cross-references: UNIPARC:UPI0000175617; UNIPARC:UPI0000175618; UNIPARC:UPI0000175619;
UNIPARC: UPI000017561A; UNIPARC: UPI000017561B
R: Hibbs, M.L.; Dunn, A.R.; Alexander, W.S.
submitted to the EMBL Data Library, April 1994
A; Description: The complete cDNA sequence of the Mouse Epidermal Growth Factor Receptor and
comparison to its human homologue.
A:Reference number: S45325
A; Accession: S45325
A:Status: preliminary
A; Molecule type: DNA
A; Residues: 1-971, 'K', 973-1210 <VER>
A; Cross-references: UNIPARC: UPI000002182B; EMBL: X78987; NID: g488830; PIDN: CAA55587.1; PID:
a488831
R; Paria, B.C.; Das, S.K.; Andrews, G.K.; Dey, S.K.
Proc. Natl. Acad. Sci. U.S.A. 90, 55-59, 1993
A; Title: Expression of the epidermal growth factor receptor gene is regulated in mouse
blastocysts during delayed implantation.
A; Reference number: I49643; MUID: 93126380; PMID: 7678348
A:Accession: I49643
A:Status: translated from GB/EMBL/DDBJ
A; Molecule type: mRNA
A; Residues: 12-20, 22-132 < RES>
A; Cross-references: UNIPARC: UPI000016CD26; GB: L06864; NID: q193001; PIDN: AAA53029.1; PID:
q567201
C: Genetics:
A; Gene: EGFR
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: ATP; growth factor receptor; kinase-related transforming protein;
phosphoprotein; transmembrane protein
F;1-24/Domain: signal sequence #status predicted <SIG>
F;648-670/Domain: transmembrane #status predicted <TMM>
F;712-977/Domain: protein kinase homology <KIN>
F;720-728/Region: protein kinase ATP-binding motif
F;680,695/Binding site: phosphate (Thr) (covalent) #status experimental
F;697,1070,1071/Binding site: phosphate (Ser) (covalent) #status experimental
F;993/Binding site: (or 997) phosphate (Ser) (covalent) #status experimental
F;1028/Binding site: (or 1030 or 1032) phosphate (Ser) (covalent) #status experimental
F;1197/Binding site: phosphate (Tyr) (covalent) #status experimental
                          57.1%; Score 200; DB 2; Length 1210;
 Query Match
 Best Local Similarity 59.6%; Pred. No. 2.1e-12;
 Matches 34; Conservative 5; Mismatches 18; Indels 0; Gaps
                                                                            0:
           2 IKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGOCLSCRNYSRGGVCVTHCNFLNGEP 58
Qy
              Db
         490 IMNNRAEKDCKAVNHVCNPLCSSEGCWGPEPRDCVSCQNVSRGRECVEKCNILEGEP 546
```

A; Title: Epidermal growth factor receptor threonine and serine residues phosphorylated in

RESULT 6 TVCHLV C:Date: 28-Feb-1986 #sequence revision 05-May-1995 #text change 05-Oct-2004

epidermal growth factor receptor precursor - chicken N; Contains: protein-tyrosine kinase (EC 2.7.1.112) erbB

C; Species: Gallus gallus (chicken)

```
C; Accession: A27720; A00643
R:Lax, I.: Johnson, A.: Howk, R.: Sap, J.: Bellot, F.: Winkler, M.: Ullrich, A.: Vennstrom,
B.; Schlessinger, J.; Givol, D.
Mol. Cell. Biol. 8, 1970-1978, 1988
A; Title: Chicken epidermal growth factor (EGF) receptor: cDNA cloning, expression in mouse
cells, and differential binding of EGF and transforming growth factor alpha.
A; Reference number: A27720; MUID: 88261272; PMID: 3260329
A:Accession: A27720
A; Molecule type: mRNA
A:Residues: 1-1223 <LAX>
A;Cross-references: UNIPROT:P00534; UNIPARC:UPI00001725C3; GB:M20386
R; Nilsen, T.W.; Maronev, P.A.; Goodwin, R.G.; Rottman, F.M.; Crittenden, L.B.; Raines, M.
A.; Kung, H.J.
Cell 41, 719-726, 1985
A; Title: c-erbB activation in ALV-induced erythroblastosis: novel RNA processing and
promoter insertion result in expression of an amino-truncated EGF receptor.
A; Reference number: A00643; MUID: 85228222; PMID: 2988784
A:Accession: A00643
A; Molecule type: mRNA
A: Residues: 585-1223 <NIL>
A; Cross-references: UNIPARC: UPI00001725C4; GB:M10066
C:Genetics:
A:Gene: erbB
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: alternative splicing; ATP; autophosphorylation; glycoprotein; growth factor
receptor; oncogene; phosphoprotein; phosphotransferase; transforming protein; transmembrane
protein; tyrosine-specific protein kinase
F:1-30/Domain: signal sequence #status predicted <SIG>
F;31-1223/Product: epidermal growth factor receptor #status predicted <MAT>
F;31-654/Domain: extracellular #status predicted <EXT>
F;81-307/Domain: EGF receptor extracellular domain repeat <EE1>
F;397-610/Domain: EGF receptor extracellular domain repeat <EE2>
F;655-677/Domain: transmembrane #status predicted <TMM>
F;678-1223/Domain: intracellular #status predicted <INT>
F;719-984/Domain: protein kinase homology <KIN>
F;727-735/Region: protein kinase ATP-binding motif
F;136,202,280,361,370,422,575,580,615,635/Binding site: carbohydrate (Thr) (covalent)
#status predicted
F;192,650/Binding site: carbohydrate (Ser) (covalent) #status predicted
F;687/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted
F;754/Active site: Lys #status predicted
F;1100,1183,1208/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation) #status
predicted
 Query Match
                         56.6%; Score 198; DB 1; Length 1223;
  Best Local Similarity 59.6%; Pred. No. 3.3e-12;
 Matches 34: Conservative 3: Mismatches 20: Indels
           2 IKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEP 58
             Πh
```

497 IIONRNKNDCTADRHVCDPLCSDVGCWGPGPFHCFSCRFFSROKECVKOCNILOGEP 553

```
RESULT 7
GOHUE
```

epidermal growth factor receptor precursor - human N:Contains: protein-tyrosine kinase (EC 2.7.1.112) erbB

C; Species: Homo sapiens (man) C;Date: 15-Nov-1984 #sequence\_revision 27-Nov-1985 #text\_change 05-Oct-2004

C; Accession: A00641; A25772; S30024; A38672; A00642; A43615; A23062; A05281; A60143; A33331 R; Ullrich, A.; Coussens, L.; Hayflick, J.S.; Dull, T.J.; Gray, A.; Tam, A.W.; Lee, J.;

Yarden, Y.; Libermann, T.A.; Schlessinger, J.; Downward, J.; Mayes, E.L.V.; Whittle, N.; Waterfield, M.D.; Seeburg, P.H.

Nature 309, 418-425, 1984

A; Title: Human epidermal growth factor receptor cDNA sequence and aberrant expression of the amplified gene in A431 epidermoid carcinoma cells.

A:Reference number: A00641; MUID:84219729; PMID:6328312

A; Accession: A00641

A:Molecule type: mRNA

A; Residues: 1-1210 <ULL>

A;Cross-references: UNIPROT:P00533; UNIPARC:UPI0000050F30; EMBL:X00588; NID:g31113; PIDN: CAA25240.1; PID:q757924

A; Note: the authors translated the codon AAG for residue 540 as Asn

R; Ishii, S.; Xu, Y.; Stratton, R.H.; Roe, B.A.; Merlino, G.T.; Pastan, I.

Proc. Natl. Acad. Sci. U.S.A. 82, 4920-4924, 1985

A; Title: Characterization and sequence of the promoter region of the human epidermal growth factor receptor gene.

A; Reference number: A25772; MUID: 85270438; PMID: 2991899

A:Accession: A25772

A:Status: translation not shown

A; Molecule type: DNA

A; Residues: 1-29 <ISH>

A; Cross-references: UNIPARC: UPI000016A882; GB: M11234; NID: g181981; PIDN: AAA52370.1; PID: q553272

R; Haley, J.; Whittle, N.; Bennett, P.; Kinchington, D.; Ullrich, A.; Waterfield, M.

Oncogene Res. 1, 375-396, 1987 A:Title: The human EGF receptor gene: structure of the 110 kb locus and identification of sequences regulating its transcription.

A; Reference number: S30024; MUID: 88217333; PMID: 3329716

A; Accession: S30024

A; Molecule type: DNA

A:Residues: 1-29 <HA2>

A; Cross-references: UNIPARC: UPI000016A882; EMBL; X06370; NID: g31118; PIDN: CAA29668.1; PID: g31119

R; Halev, J.D.; Waterfield, M.D.

J. Biol. Chem. 266, 1746-1753, 1991

A; Title: Contributory effects of de Novo transcription and premature transcript termination in the regulation of human epidermal growth factor receptor proto-oncogene RNA synthesis.

A; Reference number: A38672; MUID: 91107677; PMID: 1988448

A; Accession: A38672 A; Molecule type: DNA

A:Residues: 1-29 <HAL>

A; Cross-references: UNIPARC: UPI000016A882; GB: M38425; NID: q181977; PIDN: AAA63171.1; PID:

A; Experimental source: carcinoma cell line A431-7

R; Xu, Y.; Ishii, S.; Clark, A.J.L.; Sullivan, M.; Wilson, R.K.; Ma, D.P.; Roe, B.A.; Merlino, G.T.; Pastan, I.

Nature 309, 806-810, 1984

A; Title: Human epidermal growth factor receptor cDNA is homologous to a variety of RNAs overproduced in A431 carcinoma cells.

A; Reference number: A00642; MUID: 84245835; PMID: 6330563

A; Accession: A00642

```
A; Molecule type: mRNA
A:Residues: 'RCAWRRA'.150-187, 'KSVIOAV'.195, 'M'.197, 'A'.199-222, 'S'.224-304, 'RA'.307-
321, 'A', 323-372, 374-502, 504, 'GSAMP', 510, 'A', 512, 'R', 514-517, 'RA', 521-539, 'N', 541-
667, 'IG', 670-676, 'A', 678-794, 'SAG', 798-799, 'TD', 802-811, 'R', 813-942 <XUY>
A; Cross-references: UNIPARC; UPI00001725BD
A; Experimental source: A431 human carcinoma cells, which have large numbers of EGF
receptors (a 30-fold amplification of DNA sequence and possible rearrangements) and
elevated EGF-binding capacity
R; Lin, C.R.; Chen, W.S.; Kruiger, W.; Stolarsky, L.S.; Weber, W.; Evans, R.M.; Verma, I.M.;
Gill, G.N.; Rosenfeld, M.G.
Science 224, 843-848, 1984
A; Title: Expression cloning of human EGF receptor complementary DNA: gene amplification and
three related messenger RNA products in A431 cells.
A; Reference number: A43615; MUID: 84196372; PMID: 6326261
A; Accession: A43615
A; Molecule type: mRNA
A; Residues: 713-964 <LIN>
A:Cross-references: UNIPARC:UPI00001725BE
A; Experimental source: epidermoid carcinoma cell line A431
R; Simmen, F.A.; Gope, M.L.; Schulz, T.Z.; Wright, D.A.; Carpenter, G.; O'Malley, B.W.
Biochem. Biophys. Res. Commun. 124, 125-132, 1984
A; Reference number: A23062; MUID: 85046483; PMID: 6093780
A; Accession: A23062
A: Molecule type: mRNA
A; Residues: 1028-1210 <SIM>
A; Cross-references: UNIPARC: UPI00001725BF
R; Weber, W.; Gill, G.N.; Speiss, J.
Science 224, 294-297, 1984
A; Reference number: A05281; MUID: 84172183; PMID: 6324343
A:Accession: A05281
A; Molecule type: protein
A; Residues: 25-30, 'S', 32-51; 454-467 < WEB>
A; Cross-references: UNIPARC: UPI00001725C0; UNIPARC: UPI00001725C1
R; Russo, M.W.; Lukas, T.J.; Cohen, S.; Staros, J.V.
J. Biol. Chem. 260, 5205-5208, 1985
A; Title: Identification of residues in the nucleotide binding site of the epidermal growth
factor receptor/kinase.
A; Reference number: A60143; MUID: 85182650; PMID: 2985580
A; Accession: A60143
A; Molecule type: protein
A; Residues: 740-744, 'X', 746-747 < RUS>
A; Cross-references: UNIPARC: UPI00001725C2
R; Mroczkowski, B.; Mosig, G.; Cohen, S.
Nature 309, 270-273, 1984
A; Title: ATP-stimulated interaction between epidermal growth factor receptor and
supercoiled DNA.
A; Reference number: A38023; MUID: 84191554; PMID: 6325948
A; Contents: annotation; receptor activity
A; Note: the EGF receptor (and other tyrosine kinases) can nick double-stranded DNA
R; Chen, W.S.; Lazar, C.S.; Lund, K.A.; Welsh, J.B.; Chang, C.P.; Walton, G.M.; Der, C.J.;
Wiley, H.S.; Gill, G.N.; Rosenfeld, M.G.
Cell 59, 33-43, 1989
A; Title: Functional independence of the epidermal growth factor receptor from a domain
required for ligand-induced internalization and calcium regulation.
A:Reference number: A33331; MUID:90003233; PMID:2790960
```

C;Comment: Binding of EGF to the receptor leads to internalization of the EGF-receptor complex, induction of the tyrosine kinase activity, stimulation of cell DNA synthesis, and

C;Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology C;Keywords: ATP; autophosphorylation; duplication; glycoprotein; phosphoprotein; phosphotransferase; proto-oncogene; receptor; transmembrane protein; tyrosine-specific

A; Contents: annotation; internalization signal

A; Cross-references: GDB:120610; OMIM:131550

F;1-24/Domain: signal sequence #status predicted <SIG>
F;25-1210/Product: EGF receptor #status predicted <MAT>
F;25-645/Domain: extracellular #status predicted <EXT>
F;75-300/Domain: EGF receptor extracellular domain repeat <EE1>

cell proliferation. C;Genetics: A:Gene: GDB:EGFR

protein kinase

A; Map position: 7p12.3-7p12.1

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F;390-600/Domain: EGF receptor extracellular domain repeat <EE2>
F;646-668/Domain: transmembrane #status predicted <TMM>
F;669-1210/Domain: intracellular #status predicted <INT>
F;710-975/Domain: protein kinase homology <KIN>
F;718-726/Region: protein kinase ATP-binding motif
F:999-1046/Region: coated-pit mediated internalization signal
F;1047-1210/Region: inhibitory
F;128,175,352,413,444,528,603/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;745/Active site: Lys #status experimental
 Query Match
                          51.1%; Score 179; DB 1; Length 1210;
 Best Local Similarity 57.4%; Pred. No. 2.6e-10;
 Matches 31; Conservative 2; Mismatches 21; Indels
                                                                0: Gaps 0:
            5 NRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEP 58
Qy
                   Db
         493 NRGENSCKATGOVCHALCSPEGCWGPEPRDCVSCRNVSRGRECVDKCKLLEGEP 546
RESULT 8
A24571
protein-tyrosine kinase (EC 2.7.1.112) erbB2 precursor - human
N; Alternate names: c-erb-B-2 protein precursor; kinase-related transforming protein erbB2;
v-erbB-related protein HER-2/neu
C; Species: Homo sapiens (man)
C:Date: 25-Oct-1987 #sequence_revision 06-Dec-1996 #text_change 05-Oct-2004
C; Accession: A24571; A25491; A44188; B44188; I59509; I57622
R; Yamamoto, T.; Ikawa, S.; Akiyama, T.; Semba, K.; Nomura, N.; Miyajima, N.; Saito, T.;
Tovoshima, K.
Nature 319, 230-234, 1986
A; Title: Similarity of protein encoded by the human c-erb-B-2 gene to epidermal growth
factor receptor.
A; Reference number: A24571; MUID: 86118663; PMID: 3003577
A; Accession: A24571
A:Molecule type: mRNA
A; Residues: 1-1255 < YAM>
A; Cross-references: UNIPROT: P04626; UNIPARC: UPI000003F55F; GB: X03363; NID: g31197; PIDN:
CAA27060.1; PID:g31198
R; Semba, K.; Kamata, N.; Toyoshima, K.; Yamamoto, T.
Proc. Natl. Acad. Sci. U.S.A. 82, 6497-6501, 1985
A:Title: A v-erbB-related protooncogene, c-erbB-2, is distinct from the c-erbB-1/epidermal
http://es/ScoreAccessWeb/GetItem.action?AppId=10516...10-516-759-14_copy_24_81.rpr&ItemType=4&startByte=0 (10 of 17)11/22/2008 11:35:38 AM
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A:Reference number: A25491; MUID:86016729; PMID:2995967

A; Accession: A25491 A; Molecule type: DNA A; Residues: 737-1031 <SEM>

Science 230, 1132-1139, 1985

chromosomal location with neu oncogene.

q553282

growth factor-receptor gene and is amplified in a human salivary adenocarcinoma.

H.; Libermann, T.A.; Schlessinger, J.; Francke, U.; Levinson, A.; Ullrich, A.

A; Title: Tyrosine kinase receptor with extensive homology to EGF receptor shares

A; Cross-references: UNIPARC: UPI000016A8A7; GB: M11767; NID: g182163; PIDN: AAA35808.1; PID:

R; Coussens, L.; Yang-Feng, T.L.; Liao, Y.C.; Chen, E.; Gray, A.; McGrath, J.; Seeburg, P.

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A; Reference number: A44188; MUID: 86070181; PMID: 2999974
A:Accession: A44188
A; Molecule type: DNA
A; Residues: 740-910 < COU1>
A;Cross-references: UNIPARC:UPI000016AA26; GB:M12036; NID:g183988; PIDN:AAA35978.1; PID:
a183989
A; Accession: B44188
A; Molecule type: mRNA
A; Residues: 1-517, 'RALL', 522, 'S', 524-654, 'V', 656-1169, 'A', 1171-1255 < COU2>
A; Cross-references: UNIPARC: UPI00001725C7; GB: M11730; NID: G183986
R; King, C.R.; Kraus, M.H.; Aaronson, S.A.
Science 229, 974-976, 1985
A; Title: Amplification of a novel v-erbB-related gene in a human mammary carcinoma.
A; Reference number: I59509; MUID: 85272597; PMID: 2992089
A:Accession: I59509
A; Status: translated from GB/EMBL/DDBJ
A; Molecule type: DNA
A; Residues: 832-909 < REX>
A; Cross-references: UNIPARC: UPI0000070A3F; GB: L29395; NID: q459807; PIDN: AAA35809.1; PID:
a459808
R; Tal, M.; King, C.R.; Kraus, M.H.; Ullrich, A.; Schlessinger, J.; Givol, D.
Mol. Cell. Biol. 7, 2597-2601, 1987
A; Title: Human HER2 (neu) promoter: evidence for multiple mechanisms for transcriptional
initiation.
A; Reference number: I57622; MUID: 87286898; PMID: 3039351
A:Accession: I57622
A:Status: translated from GB/EMBL/DDBJ
A; Molecule type: DNA
A; Residues: 1-191 <TAL>
A; Cross-references: UNIPARC: UPI0000000427; GB: M16792; NID: g183983; PIDN: AAA58637.1; PID:
a553332
C; Comment: Amplification and overexpression of this erbB-related gene occurs in about 30%
of human breast and ovarian cancers.
C; Genetics:
A; Gene: GDB: ERBB2; NGL; NEU; HER-2
A; Cross-references: GDB:120613; OMIM:164870
A; Map position: 17q21.1-17q21.1
A; Introns: 25/1; 75/3; 147/1; 883/3
A: Note: the list of introns is incomplete
C; Function:
A; Description: catalyzes the phosphorylation of a peptidyl tyrosine residue by ATP
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: ATP; autophosphorylation; duplication; glycoprotein; phosphoprotein;
phosphotransferase; proto-oncogene; receptor; transforming protein; transmembrane protein;
tyrosine-specific protein kinase
http://es/ScoreAccessWeb/GetItem.action?AppId=10516...10-516-759-14_copy_24_81.rpr&ItemType=4&startByte=0 (11 of 17)11/22/2008 11:35:38 AM
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F;22-1255/Product: protein-tyrosine kinase erbB2 #status predicted <MAT>

F;1-21/Domain: signal sequence #status predicted <SIG>

F;22-653/Domain: extracellular #status predicted <EXT> F:70-304/Domain: EGF receptor extracellular domain repeat <EE1> F;395-605/Domain: EGF receptor extracellular domain repeat <EE2> F:654-675/Domain: transmembrane #status predicted <TMM> F;676-1255/Domain: intracellular #status predicted <INT> F;718-983/Domain: protein kinase homology <KIN> F;726-734/Region: protein kinase ATP-binding motif

F;753/Active site: Lys #status predicted

#status predicted

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49.7%; Score 174; DB 1; Length 1255;
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 Best Local Similarity 51.9%; Pred. No. 8.2e-10;
 Matches 28; Conservative 5; Mismatches 21; Indels
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                                                                              0:
            5 NRPRRDCVAEGKVCDPLCSSGGCWGPGPGOCLSCRNYSRGGVCVTHCNFLNGEP 58
              498 NRPEDECVGEGLACHOLCARGHCWGPGPTOCVNCSOFLRGOECVEECRVLOGLP 551
Db
RESULT 9
TVRTNII
protein-tyrosine kinase (EC 2.7.1.112) new precursor - rat
C; Species: Rattus norvegicus (Norway rat)
C;Date: 31-Dec-1988 #sequence_revision 31-Dec-1988 #text_change 05-Oct-2004
C:Accession: A24562; A61204
R; Bargmann, C.I.; Hung, M.C.; Weinberg, R.A.
Nature 319, 226-230, 1986
A; Title: The neu oncogene encodes an epidermal growth factor receptor-related protein.
A; Reference number: A24562; MUID: 86118662; PMID: 3945311
A; Accession: A24562
A; Molecule type: mRNA
A; Residues: 1-1260 <BAR>
A; Cross-references: UNIPROT: P06494; UNIPARC: UPI0000161B83; EMBL: X03362; NID: q56745; PIDN:
CAA27059.1; PID:q56746
R; Masui, T.; Mann, A.M.; Macatee, T.L.; Garland, E.M.; Okamura, T.; Smith, R.A.; Cohen, S.M.
Carcinogenesis 12, 1975-1978, 1991
A; Title: Direct DNA sequencing of the rat new oncogene transmembrane domain reveals no
mutation in urinary bladder carcinomas induced by N-butyl-N-(4-hydroxybutyl)nitrosamine, N-
[4-(5-nitro-2-furyl)-2-thiazolyl]formamide or N-methyl-N-nitrosourea.
A:Reference number: A61204; MUID:92035293; PMID:1682063
A; Accession: A61204
A; Status: preliminary
A; Molecule type: DNA
A; Residues: 637-663, 'V', 665-702 < MAS>
A; Cross-references: UNIPARC: UPI00001725C8
A:Note: authors translated the codon GCA for residue 25 as Val
C; Genetics:
A:Gene: neu
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: ATP; autophosphorylation; duplication; glycoprotein; phosphoprotein;
phosphotransferase; proto-oncogene; transforming protein; transmembrane protein; tyrosine-
specific protein kinase
http://es/ScoreAccessWeb/GetItem.action?AppId=10516...10-516-759-14_copy_24_81.rpr&ItemType=4&startByte=0 (12 of 17)11/22/2008 11:35:38 AM
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F:68,124,187,259,530,571,629/Binding site; carbohydrate (Asn) (covalent) #status predicted F;686/Binding site: phosphate (Thr) (covalent) (by protein kinase C) #status predicted

F;1139,1221,1222,1248/Binding site: phosphate (Tyr) (covalent) (by autophosphorylation)

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F;1-19/Domain: signal sequence #status predicted <SIG>
F;20-1260/Product: protein-tyrosine kinase neu #status predicted <MAT>
F;658-680/Domain: transmembrane #status predicted <TMN>
F;723-988/Domain: protein kinase homology <KIN>
F;731-739/Region: protein kinase ATP-binding motif
F;71,191,263,535,576,634/Binding site: carbohydrate (Asn) (covalent) #status predicted
F;691/Binding site: phosphate (Thr) (covalent) #status predicted
F;758/Active site: Lys #status predicted
F;882,1227,1253/Binding site: phosphate (Tyr) (covalent) #status predicted
 Query Match
                        47.6%; Score 166.5; DB 1; Length 1260;
 Best Local Similarity 50.9%; Pred. No. 4.6e-09;
 Matches 28; Conservative 7; Mismatches 19; Indels
                                                            1; Gaps 1;
           5 NRPRRD-CVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEP 58
Qv
             Db
         502 NRPEEDLCVSSGLVCNSLCAHGHCWGPGPTOCVNCSHFLRGOECVEECRVWKGLP 556
RESILT 10
$70713
protein-tyrosine kinase let-23 precursor homolog - Caenorhabditis vulgaris
N; Alternate names: receptor tyrosine kinase let-23 homolog
C: Species: Caenorhabditis vulgaris
C;Date: 21-Apr-1997 #sequence_revision 09-May-1997 #text_change 05-Oct-2004
C:Accession: S70713
R; Sakai, T.; Koga, M.; Ohshima, Y.
J. Mol. Biol. 256, 548-555, 1996
A; Title: Genomic structure and 5' regulatory regions of the let-23 gene in the nematode C.
elegans.
A; Reference number: S70712; MUID: 96177760; PMID: 8604137
A:Accession: S70713
A; Status: nucleic acid sequence not shown
A; Molecule type: DNA
A:Residues: 1-1369 <SAK>
A; Cross-references: UNIPROT: 023821; UNIPARC: UPI000017A3EC; EMBL: D63427
C; Genetics:
A; Gene: let-23
A; Introns: 42/1; 49/1; 83/1; 105/3; 155/3; 207/1; 280/1; 369/1; 408/1; 438/2; 555/1; 598/2;
673/2; 733/3; 830/3; 882/3; 1147/1; 1247/3; 1274/1; 1309/1
C; Keywords: ATP; phosphotransferase; transmembrane protein; tyrosine-specific protein kinase
F;1-28/Domain: signal sequence #status predicted <SIG>
F;29-1369/Product: protein-tyrosine kinase let-23 homolog #status predicted <MAT>
F;929-1194/Domain: protein kinase homology <KIN>
F;937-945/Region: protein kinase ATP-binding motif
                        43.0%; Score 150.5; DB 2; Length 1369;
 Query Match
 Best Local Similarity 40.7%; Pred. No. 1.9e-07;
                                                             3; Gaps 1;
 Matches 24; Conservative 12; Mismatches 20; Indels
           2 IKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGOCLSCRNYSRGGVCVTHCN---FLNGE 57
Qy
             Db
        546 VEENRDRKLCIQEEEICDPNCNSRGCWGKRPEDCRECRTWNNMGTCVSKCDTIGFLRNQ 604
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RESULT 11 S06142 protein-tyrosine kinase (EC 2.7.1.112) mrk-Y precursor - southern platyfish

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N; Alternate names: epidermal growth factor receptor homolog; kinase-related transforming
protein Tu; melanoma-inducing protein
C:Species: Xiphophorus maculatus (southern platvfish)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 05-Oct-2004
C; Accession: S06142; S13809
R; Wittbrodt, J.; Adam, D.; Malitschek, B.; Maeueler, W.; Raulf, F.; Telling, A.; Robertson,
S.M.; Schartl, M.
Nature 341, 415-421, 1989
A:Title: Novel putative receptor tyrosine kinase encoded by the melanoma-inducing Tu locus
in Xiphophorus.
A; Reference number: S06142; MUID: 90015140; PMID: 2797166
A; Accession: S06142
A; Molecule type: DNA
A; Residues: 1-1166 <WIT>
A; Cross-references: UNIPROT:P13388; UNIPARC:UPI00001725C5; EMBL:X16891; NID:g65290; PIDN:
CAA34770.1; PID:g65291
R; Adam, D.; Maeueler, W.; Schartl, M.
Oncogene 6, 73-80, 1991
A; Title: Transcriptional activation of the melanoma inducing Xmrk oncogene in Xiphophorus.
A; Reference number: S13807; MUID: 91125882; PMID: 1846957
A:Accession: S13809
A; Status: preliminary; translation not shown
A; Molecule type: DNA
A; Residues: 821-1025, 'N', 1027-1098, 'A', 1100-1166 < ADA>
A;Cross-references: UNIPARC:UPI00001715E2; EMBL:X56319; NID:g65284; PIDN:CAA39763.1; PID:
q65285
C: Genetics:
A:Gene: mrk
A; Map position: Y
A; Introns: 872/3; 898/1; 947/1; 979/3; 1025/3; 1056/1
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: ATP; growth factor receptor; phosphotransferase; transmembrane protein;
tyrosine-specific protein kinase
F;1-25/Domain: signal sequence #status predicted <SIG>
F:26-1166/Product: kinase-related transforming protein (Tu) #status predicted <MAT>
F;707-972/Domain: protein kinase homology <KIN>
F;715-723/Region: protein kinase ATP-binding motif
 Ouerv Match
                          41.0%; Score 143.5; DB 1; Length 1166;
 Best Local Similarity
                          51.0%; Pred. No. 8.3e-07;
 Matches
          25; Conservative 4; Mismatches 19; Indels
                                                                1; Gaps 1;
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0v
                 1:1: 11 111 111 1:11: 111 11 11 11 11
Db
         496 DARTENQTONNECSEDGCW-PGPTMCVSCLHVDRGGRCVASCNLLQGEP 543
RESULT 12
I48161
p-185 precursor - golden hamster
C; Species: Mesocricetus auratus (golden hamster)
C;Date: 02-Jul-1996 #sequence_revision 02-Jul-1996 #text_change 05-Oct-2004
C; Accession: I48161
R; Nakamura, T.; Ushijima, T.; Ishizaka, Y.; Nagao, M.; Arai, M.; Yamazaki, Y.; Ishikawa, T.
Gene 140, 251-255, 1994
A:Title: Cloning and activation of the Syrian hamster new proto-oncogene.
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A; Reference number: I48161; MUID: 94193007; PMID: 7908275
A:Accession: I48161
A; Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: mRNA
A; Residues: 1-1254 < RES>
A;Cross-references: UNIPROT:Q60553; UNIPARC:UPI000012A111; GB:D16295; NID:g493236; PIDN:
BAA03801,1; PID:q747595
C:Genetics:
A;Gene: neu
C; Superfamily: Tyrosine-protein kinase, EGF receptor type; protein kinase homology
C; Keywords: ATP
F;718-983/Domain: protein kinase homology <KIN>
F;726-734/Region: protein kinase ATP-binding motif
 Query Match
                         40.6%; Score 142; DB 2; Length 1254;
 Best Local Similarity
                        42.6%; Pred. No. 1.2e-06;
 Matches 23; Conservative 7; Mismatches 24; Indels 0; Gaps
           5 NRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLNGEP 58
Qv
                 Db
         498 NPSEEECGLKDFACYPLCAHGHCWGPGPTQCVNCSHFLRGQECVKECRVWKGLP 551
RESHLT 13
A27131
epidermal growth factor receptor - fruit fly (Drosophila melanogaster) (fragment)
C; Species: Drosophila melanogaster
C:Date: 19-Nov-1988 #sequence revision 19-Nov-1988 #text change 31-Dec-2004
C:Accession: A27131
R; Scheiter, E.D.; Segal, D.; Glazer, L.; Shilo, B.Z.
Cell 46, 1091-1101, 1986
A:Title: Alternative 5' exons and tissue-specific expression of the Drosophila EGF receptor
homolog transcripts.
A; Reference number: A27131; MUID: 87002474; PMID: 3093080
A; Accession: A27131
A; Molecule type: mRNA
A; Residues: 1-843 <SCH>
A; Cross-references: UNIPROT: 08MLW0; UNIPARC: UPI0000175612
C:Genetics:
A; Gene: FlvBase: Egfr
A; Cross-references: FlyBase: FBgn0003731
C; Superfamily: protein kinase homology
C; Keywords: ATP; growth factor receptor
                         38.0%; Score 133; DB 2; Length 843;
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 Best Local Similarity 37.8%; Pred. No. 7.3e-06;
 Matches 17; Conservative 10; Mismatches 18; Indels 0; Gaps 0;
QУ
         11 CVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCNFLN 55
                1:1 1: 1111 | 111:1:1:: 1 1: 1:::
Db
         517 CEKNGTICSDOCNEDGCWGAGTDOCLTCKNFNFNGTCIADCGYIS 561
RESULT 14
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protein let-23 [imported] - Caenorhabditis elegans

C:Species: Caenorhabditis elegans

E88257

R; anonymous, The C. elegans Sequencing Consortium.

A:Reference number: A75000; MUID:99069613; PMID:9851916

C:Accession: E88257

Science 282, 2012-2018, 1998

Science 285, 1493, 1999 A;Accession: E88257

C\_elegans/ for a list of authors

C;Date: 10-May-2001 #sequence\_revision 10-May-2001 #text\_change 05-Oct-2004

A; Title: Genome sequence of the nematode C. elegans: a platform for investigating biology.

A; Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and

A; Note: see websites genome.wustl.edu/qsc/C\_elegans/ and www\_sanger.ac.uk/Projects/

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A; Status: preliminary
A; Molecule type: DNA
A:Residues: 1-1323 <STO>
A;Cross-references: UNIPARC:UPI0000164043; GB:chr_II; PIDN:CAA93882.1; PID:q3881523; GSPDB:
GN00020
C; Genetics:
A:Gene: let-23
A; Map position: 2
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 Best Local Similarity 39.0%; Pred. No. 2.8e-05;
 Matches 23; Conservative 7; Mismatches 26; Indels
                                                                  3; Gaps
            2 IKHNRPRRDCVAEGKVCDPLCSSGGCWGPGPGQCLSCRNYSRGGVCVTHCN---FLNGE 57
Qv
               1 11 : 1 1:111 1: 1111 1 11 1: : 1 11 1: 11
Db
          504 IAENRDSKLCETEQRVCDKNCNKRGCWGKEPEDCLECKTWKSVGTCVEKCDTKGFLRNQ 562
RESULT 15
S70712
protein-tyrosine kinase (EC 2.7.1.112) let-23 precursor - Caenorhabditis elegans
N; Alternate names: receptor tyrosine kinase let-23
C:Species: Caenorhabditis elegans
C;Date: 21-Apr-1997 #sequence_revision 09-May-1997 #text_change 05-Oct-2004
C; Accession: S70712; S73101; S13422; T27682
R; Sakai, T.; Koga, M.; Ohshima, Y.
J. Mol. Biol. 256, 548-555, 1996
A; Title: Genomic structure and 5' regulatory regions of the let-23 gene in the nematode C.
elegans.
A; Reference number: S70712; MUID: 96177760; PMID: 8604137
A; Accession: $70712
A; Status: nucleic acid sequence not shown
A; Molecule type: DNA
A:Residues: 1-1374 <SAK>
A; Cross-references: UNIPROT: P24348; UNIPARC: UPI000017A472; EMBL: D63426
A; Experimental source: strain N2
R; Koga, M.
submitted to the EMBL Data Library, July 1995
A; Reference number: S73101
A:Accession: S73101
A; Molecule type: DNA
A; Residues: 1-50, 'G', 52-1374 < KOG>
A; Cross-references: UNIPARC: UPI000016B8F7; EMBL: D63426; NID: q1407562; PIDN: BAA09729.1; PID:
a1407563
A; Experimental source: strain N2
R: Aroian, R.V.; Koga, M.; Mendel, J.E.; Ohshima, Y.; Sternberg, P.W.
http://es/ScoreAccessWeb/GetItem.action?AppId=10516...10-516-759-14_copy_24_81.rpr&ItemType=4&startByte=0 (16 of 17)11/22/2008 11:35:38 AM
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Ouerv Match 36.7%; Score 128.5; DB 2; Length 1374; Best Local Similarity 39.0%; Pred. No. 2.9e-05; 23; Conservative 7: Mismatches Matches 26; Indels 3; Gaps 1;

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Search completed: November 12, 2008, 12:15:04 Job time : 10 secs